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Name.....

Reg. No.....

**THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2023**

Computer Science

CSC 3C 03—PROBLEM SOLVING USING—C

(2019—2022 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Type Questions)

Answer all questions, each correct answer carries a maximum of 2 marks.

Ceiling 20 marks.

1. Explain Identifiers. What are the conditions for naming an identifier ?
2. Explain different types of fundamental data types in C.
3. Explain conditional operator with an example.
4. Write the syntax for scanf() and printf() functions.
5. Define array and how can we initialize an array ?
6. What is the difference between static and dynamic memory allocation ?
7. Explain local and global variable.
8. What are the difference between structure and union ?
9. What are formal and actual parameters in functions ?
10. Explain pointer with an example.
11. Explain any *two* file handling functions.
12. Define break and continue statement.

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Section B (Short Essay Type Questions)

Answer all questions, each correct answer carries a maximum of 5 marks.

Ceiling 30 marks.

13. Explain the structure of a C Program.
14. Explain goto statement with example.
15. Explain recursive function with an example.
16. Define a structure data type called Employ containing three fields : name, age and designation. Develop a program that would assign values to the individual members and display it.
17. Explain storage classes in C.
18. Explain briefly the term 'user defined functions' and its prototyping.
19. Explain switch statement with example.

Section C (Essay Type Questions)

Answer any one question, correct answer carries 10 marks.

20. Explain various decision making and branching statements in C with example.
21. Explain various string handling functions with example.